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# SYLLABUS

Of what is to be perform'd in a

## COURSE

OF

## ANATOMY,

## Chirurgical OPERATIONS,

AND

## BANDAGES.

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By JOHN DOUGLAS, Surgeon.

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*Qui fructuosa non qui multa scit, sapit.*

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L O N D O N,


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# THE PREFACE.

Y Course being of a different Nature from those commonly given, I'm oblig'd to say something by Way of Preface to the *Syllabus* which I now publish, in order to explain the Design of it a little more clearly, than, perhaps, could be gather'd from the bare reading of it, especially by such as are unacquainted with these Matters, whom nevertheless it chiefly concerns to be fully inform'd about it.

IT's entirely calculated for the Students of Surgery; and the main Design of it, is to shew them a shorter and more direct Way of acquiring that excellent and useful Art, than any has hitherto been propos'd.

IN order to which, I have divided it into three Parts, as in the Title.



# *The Preface.*

## I. OF ANATOMY.

THAT the Knowledge of the Parts on which we are to work is absolutely necessary to be well understood by Surgeons, yea, that a Man cannot deserve that Name while ignorant of them, is too evident to need to be prov'd.

I shall confine my self to the Demonstration and Description of those Parts only that will assist us to understand a Case, or make an Operation; which Parts I distinguish by the Name of *Anatomia Chirurgo necessaria*.

1. BECAUSE these being perfectly known, they not only make a Man a competent Judge when and where an Operation may be safely made, but also enable him to go about it with all imaginable Grace and Resolution; whereas when ignorant of them, he's fearful sometimes where there's no Danger at all, and at other times bold in really hazardous Cases, as daily Experience shews.

2. BECAUSE they are soon acquir'd, and easily retain'd; whereas the long tedious Courses commonly propos'd, require more Time, Labour, and Expences, (before ever they can make any tolerable Progress) than one in twenty can afford.

AFTER

## *The Preface.*

AFTER the Demonstrations, I shall always explain how and in what Cases, *i. e.* Diseases, the Knowledge of each Part will be serviceable to us in our Practice, and that I call their *Practical Uses*; which are of much greater Importance to be well understood, than their *Natural Uses*, which are commonly so much insisted on.

THE natural Structure and Situation of the Parts, is not of more Consequence to be well understood, than their preternatural Structure, *i. e.* how and after what Manner they are affected, *E. G.* in a *Hernia*, &c. the first of which is to be learn'd by dissecting of sound, the second by dissecting of morbid Bodies.

YOU may observe through the whole *Syllabus*, that there are a great many very remarkable Parts left out in it, which are always taken Notice of in other *Syllabus*'s, *E. G.* the *Os Sphenoides*, *Musculi interspinales*, *Depressores Costarum*, &c. All the Parts of the *Brain*, *Glandulae Renales*, &c. the Reason of which is, because their practical Uses are not yet known.

## 2. OF OPERATIONS.

MY Design in the second Part of my Course, is to inculcate such an Idea of the Chirurgical Operations, and the various Ways of performing them,



## *The Preface.*

them, that Students may be thereby render'd capable to distinguish judiciously between the different Methods propos'd by Authors.

I N order thereunto, I shall first shew what's to be observ'd about Instruments and Operations in general ; then, before each Operation, describe the Instruments that either have been, are, or ought to be used in performing it ; and for their sake, whose Memories or Attention may have fail'd them, recapitulate the Anatomical Structure of the Parts concern'd, that they may the better apprehend their Practical Uses.

A T the Operation I shall shew the various Methods of performing it, and the Advantages of one and Inconveniencies of the rest, from the Structure of the Parts, Instruments used, Method of using them, &c.

A F T E R the Operation, I shall demonstrate and describe the Dressings, and the Method of applying of them ; then give a short Account of what's most material to be observ'd in the Cure.

S O M E are apt to fancy, that the seeing Operations made on dead Bodies is of little if any Use. I own, that the bleeding, crying, and struggling of the Patients, and preternatural Structure of the Parts in some Cases, are wanting here : But then Operations on dead Bodies have all the other Advantages



## *The Preface.*

advantages which those on living ones have, and besides, a great many peculiar to themselves, which will more than compensate the Defects above-mention'd : For first, the Instruments used, Method of using them, Application of the Dressings, &c. are the same in both. The various Instruments, Methods of Operating, Dressing, &c. that have been, are, or ought to be used, are describ'd and demonstrated ; Doubts and Objections are answer'd, and Instructions and Directions given at full Leisure ; for all which there's no Time can be allow'd when we operate on living Bodies. Lastly, the Method of making all the Operations now practis'd, are laid before us in one View, (which not one in a hundred have ever the Opportunity of seeing made on living Bodies) which gives us such clear and distinct Ideas of the whole, as could never be acquir'd by Reading, or any other Way imaginable.

I have through the whole taken the Liberty to point out the Defects of the Instruments, Methods of Operating, Dressing, &c. hitherto propos'd, (wherever I find Occasion) without any Regard to the Authority, either of the Author or Practisers of them ; because true Surgery being founded on Reason, and the unalterable Nature of Things, no Man, nor no Body of Men, have any Right  
to



## *The Preface.*

to impose particular Methods of making Operations upon us, when it can be made appear from Reason and Experience, that another Way is preferable : “ Antiquity (says the excellent *Parey*) and  
“ Custom in Things that are perform’d by Art,  
“ ought not to have any Sway, Authority, or  
“ Place, contrary to Reason, as they often have  
“ in civil Affairs ; wherefore let no Man say un-  
“ to us, that such a Thing must be right, because  
“ such a Man says or does so.

*Idem ego Chyrurgis omnibus censeo faciendum :  
Non enim ut in negotiis Civilibus, sic in his rebus  
quæ arte geruntur præscriptio, jus, auctoritatem, aut  
locum contra rationem habere potest ; ne quis ob-  
trudat sic semper a Majoribus fuisse factitatum. Vid.  
Oper. Amb. Par. Paris. 1582. pag. 379. cap. 24.*

### 3. OF BANDAGES.

I shall show a Sett of Bandages and Trusses (which every one may apply himself) that will answer your Intention in any suppos’d Case.

THIS is what I thought necessary to be said concerning the Nature and Design of my Courses, which I hope to perform with that Care, Clearness, and good Order, as shall abundantly satisfy all those who shall think it worth their while to attend them.





*Anatomiae Chirurgo necessariae  
Syllabus.*

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**O S T E O L O G Y.**

**I. DEMONSTRATION.**

*Of the Bones in General, Viz.*

- Their Membranes,
- Ligaments,
- Glands,
- Cartilages,
- Articulations,
- Figure,
- Holes,
- Processes,
- Cavities,
- Marrow,
- Situation,
- Substance, &c.

*Practical Use of each in Surgery.*

## The Sutures, Viz.

*Coronalis.*

*Sagittalis.*

*Lamboidalis,* and *Ossa Triquetra.*

*Squamosa.* Their Situation, &c.

*Practical Use of each.*

## The Bones of the Skull.

Their Tables and Diploe.

*Practical Use.*

## The Os Frontis.

Its Situation,

— Figure,

— Sinus's,

— Spine,

— Holes,

— Processes and Thickness.

*Practical Use of each.*

## The Os Bregmatis.

Its Situation,

— Figure,

— Holes,

— Thickness.

*Practical Use of each.*



## The Os Occipitis.

- Its Situation,
- Figure,
- Articulation,
- Motion,
- Great Hole,
- Crose-like Spine,
- Asperities for the Origin and Insertion of Muscles.

*Practical Use of each.*

## The Os Temporis.

- Its Situation,
- Figure,
- Processes, viz. { *Mamillaris* and  
                              *Fugalis*,
- Sinus,
- Bony Part of the *Meatus Auditus*.

*Practical Use of each.*

## The Os Ethmoides.

- Its Situation,
- Holes,
- *Septum Narium*,
- Spongy Bones.

*Practical Use of each.*

VOMER: Its Practical Use.

## II. DEMONSTRATION.

*Of the Bones of the Face.**The BONES of the Nose.*

Their Situation,

— Figure,

— How supported.

*Practical Use of each.**The Upper Jaw.*

Their Situation,

— Figure,

— Superior Process, which forms half the *Ductus*.*Lachrymalis,*

— Holes,

— Dr. Highmore's Antrum,

— Sockets for the Teeth.

*Practical Use of each.**The Os Palati.*

Its Situation,

— Holes.

*Practical Use of each.**The Os Mali.*

Its Situation,

— Figure,

— Processes.

*Practical Use.*



## The Os Unguis.

Their Situation,

- Figure,
- Substance,
- Plain Part,
- Sieve-like Part, which forms the other half of the *Ductus Lachrymalis*.

*Practical Use of each.*

## The Lower Jaw.

Its Situation,

- Figure,
- Processes, viz. { *Condylodes,*  
                          *Coronales,*
- Holes,
- Angles.

*Practical Use of each.*

## The T E E T H.

*Viz.* Cutters,

- Dog-Teeth,
- Grinders, and Wise Teeth,
- Cavities,
- Membranes,
- Holes,
- Fangs or Roots.

*Practical Use of each.*

## *The Bones of the Trunk.*

### *The Clavicula.*

- Its Situation,
- Figure,
- Articulation, with the *Sternum* and *Acromion*.

*Practical Use of each.*

### *The Sternum.*

- Its Situation,
- Figure,
- Two *Sinus*'s for the Reception of the *Clavicula*,
- Division,
- *Cartilago Ensiformis*,
- Articulation, with the Cartilages of the Ribs.

*Practical Use of each.*

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The



*The R I B S.*

- Its Situation,
- Figure,
- Convexity on the Outside,
- Concavity on the Inside,
- Superior Edge,
- Inferior Edge,
- Sulci,
- Articulation,
- Processes,
- The True and
- False.

*Practical Use of each.*

*Vertebrae.*

- Of the Neck,
- Back,
- Loins,
- Os Sacrum; their Processes,
- Coccyx.

- Its Situation,
- Connexion,
- Basis,
- Motion.

*Its Practical and Natural Uses.*

III. DEMON-

### III. DEMONSTRATION.

#### *The Bones of the Upper Extremity.*

##### *The Scapula.*

- Its Situation,
- Figure,
- Processes, viz. { Its Spine and  
Processus Coracoid,
- Costæ,
- Basis,
- Angles,
- Glenoid Cavity,
- Neck,

*Practical and Natural Uses of each.*

##### *The Shoulder-Bone.*

- Its Figure,
- Articulation,
- Motion,
- Head,
- Superior Processes,
- Sulcus,
- Internal and
- External Inferior Processes,
- Anterior and
- Posterior Sinus's.

*Practical Uses of each.*



## The Cubit.

- Its Number of Bones,  
Their different Motion,  
— Figure,  
— Articulation, between themselves and with the  
Os Humeri.

## The Ulna.

- Its Situation,  
— Upper Extremity,  
— Olecranon,  
— Anterior Process,  
— Gap between them,  
— Sinus,  
— *Processus Styloides*, &c.

*Practical Use of each.*

## The Radius.

- Its Situation,  
— Cavity on its Head,  
— Neck,  
— Tubercle,  
— Articulation, with the *Carpus*, &c.

*Practical Use.*

## The *Carpus*.

Number of the Bones,  
Their Situation,  
—— Motion,  
—— Articulation, with the *Metacarpus*.

*Practical Use of each.*

## The *Metacarpus*.

The *Digiti*.

The



## *The Bones of the Lower Extremity.*

### *The Os Innominatum.*

Its Figure,

- Situation,
- Junction, with the *Sacrum*.
- *Acetabulum*,
- *Foramen Ovale*.

Its Division into the

- *Ilium*,
- *Pubes* and
- *Ischium*.

*Practical Use of each.*

### *The Thigh-Bone.*

Its Figure,

- Head and Sinus for the Insertion of the round Ligament,
- Neck,
- *Trochanter major & minor*,
- *Linea Aspera*,
- Convexities on its Outside,
- Concavity on its Inside,
- Inferior Processes,
- Gap betwixt them.

*Practical Use of each.*

## The *Petella*.

- Its Situation,
- Motion,
- Connexion.

*Practical Use of each.*

## The *Tibia*.

- Its Situation,
- Figure,
- Articulation,
- Anterior Process,
- Inferior Process,
- Anterior, Interior, and Exterior Ridge,
- Motion and Magnitude.

*Practical Use of each.*

## The *Fibula*.

- Its Situation,
- Magnitude,
- Conjunction with the *Tibia*,
- *Malleolus Externus*.

*Practical Use of each.*

## The *Tarsus*, viz.

*Astragalus*, { Its Situation and  
— Articulation, &c.

*Calcaneum*,  
*Cuboides*, &c.

## The *Metatarsus*.

The *Digiti*.



# ENTEROLOGY.

## IV. DEMONSTRATION.

### *External Parts, viz.*

*Of the HEAD, in which we observe*

The hairy Scalp,

The External Ear, whose Parts are

The Lobe,

— *Tragus,*

— *Antitragus, &c.*

*The FACE, in which we observe*

The Eye-brows,

— *Canthi,*

— Eye-lids:

Their Ligaments.

The Eye-Lashes,

— *Cilia,*

— *Caruncula Lachrymalis,*

— *Puncta Lachrymalia.*

— Globe or Ball of the Eye.

— *Tunica Alba,*

— — *Cornea.*

— *Iris,*

— *Pupilla.*

*Practical Use of each.*

All the other Parts of the Face are known to every  
Body.

Of

*Of the NECK, in which we observe*

The Protuberance of the *Cartilago Scutiformis*, call'd  
*Pomum Adami*.

Course of the *Trachæa* to the  
—— *Jugulum*.

*Of the THORAX, in which we observe*

The *Mammæ*,

—— *Papillæ*,

—— *Areolæ*,

—— *Scrobiculus Cordis*.

The rest are commonly known.

*Of the ABDOMEN, in which we observe*

The Navel,

—— Epigastrick Region and *Hypochondria*,

—— Umbilical Region and *Iliæ*,

—— Hypogastrick Region and *Inguina*.

*The PUDENDA in Men are*

The Yard, in which the

{	<i>Glans</i> ,
	<i>Prepuce</i> ,
	<i>Frenum</i> ,
	Course of the <i>Urethra</i> .

—— *Scrotum*,

—— *Perinæum*,

—— *Anus*, &c.

*The PUDENDA in Women are*

The *Mons Veneris*,

—— *Labia*,

—— *Nympha*,

—— *Clytoris*,

—— *Forke*,

—— *Perinæum*, &c.



*The Upper Extremity, in which we observe*

The Shoulder,

- Arm,
- Fore-Arm,
- Wrist,
- *Metacarpus*,
- *Fingers*.

*The Lower Extremity, in which we observe*

The Hip,

- Thigh,
- Leg,
- *Tarsus*,
- *Metatarsus*
- *Toes*.

*Practical Uses of each.*

The

## The Scarf-Skin.

- Skin,
- Fat.

*Practical Use of each.*

## The Principal Membranes, Viz.

The *Peritonæum*. { Its External and Internal Coat.  
—— Process.

—— *Mediastinum*.

—— *Caul*, { Its various Situation and Size,  
—— Connexions.

—— *Pleura*.

—— *Dura Mater* { Its Longitudinal and Lateral Sinus's,  
The *Falx* and Lateral Processes.

—— *Pia Mater*.

*Practical Use of each.*



## V. DEMONSTRATION.

### The *Trachea*, or *Fistula Pulmonalis*, In which we observe

Its Situation,

—— Head call'd *Larynx*, which is compos'd of five  
Cartilages, viz.

The *Thyroides*,

—— *Cricoides*,

—— *Aritænoides* and

—— *Epiglottis*.

Its Middle call'd *Aspera Arteria*, in which we  
observe,

That its back Part is Membranous :

That all the rest is made up of Cartilages, joyn'd  
together by Membranes.

*Practical Use of each.*

D

The

# The Situation of the principal *Viscera* in the *Thorax* and *Abdomen*.

- Of the Heart and Lungs,  
—— *Ductus Alimentalis*, viz.  
    the Gullet, Stomach, small and great Guts.  
—— Mesentery,  
—— Liver and Gall Bladder  
—— Pancreas and Spleen,  
—— *Vena Cava*, *Porta*, and *Aorta*, &c.

A short Account of the Circulation, &c.

*Practical Use of the whole.*



# A D E N O L O G Y.

## VI. D E M O N S T R A T I O N.

The *Salivary Glands*, Viz.  
*Glandula Parotis.*

Its Situation,  
— Duct, &c.

*Glandula Maxillaris.*

Its Situation.

*Glandulæ Tonsillæ.*

Their Situation.

*Uvula.*

Its Situation.

*Glandulæ Thyroideæ.*

Their Situation.

*Glandulæ Concatinatæ,*

— — — *Inguinales,*

— — — *Axillares,*

— — — *Miliares.*

*Practical Use of each.*

## Of the E A R.

The *Meatus Auditorius*. — Its Glandulous Coat.  
— *Membrana Tympani,*  
— Its Gap,  
— *Tympanum,*  
— *Tuba Eustachiana.*

*Practical Use of each.*

# ANGIEOLOGY.

## VII. DEMONSTRATION.

The Course of the *Carotids* from the *Jugulum* to the Skull, with the principal Branches on the Neck, Face, and Head.

The Course of the Internal and External Jugular Veins.

The Course of the Axillar, Crural, Intercostal, and Genital Arteries, with their principal Ramifications.

How to inject them.

Those Veins that are open'd in Bleeding.

*Practical Use of each.*

## VIII. DEMON-



## VIII. DEMONSTRATION.

*The Urinary and Genital Parts in Men and Women.*

*In Men.*

*The Situation of the Kidneys.*

*Their Pelvis.*

*The Situation of the Ureters.*

*Their Course and Infertion into the Bladder.*

*The Situation of the Bladder without the Peritonæum.*

*Its Internal Coat.*

*The Situation of the Testes.*

*Their Coats, viz.* { *Cutis,*  
*Dartos,*  
*Vaginalis* from the  
*Peritonæum* and the  
*Albiginea.*

*The Spermatick Vessels,*

— *Corpora Varicosa,*

— *Epididymi, vel Parastatæ,*

— *Vasa Deferentia,*

— *Vesiculæ Seminales.*

*Their Ducts,*

— *Caput Gallinaginis,*

— *Prostata.*

*Their Ducts.*

The

## *The Situation of the Urethra.*

- Its Membranous Part,
- Cavernous Part,
- Bulb,
- Glandulous Part,
- *Lacunæ.*

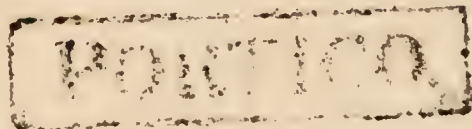
## *The Penis.*

- Its *Præpuce*,
- *Frænum*,
- Odoriferous Glands,
- Glans,

- The Cavernous Body of the Glans,
- Cavernous Bodies of the *Penis.*

- Their *Crura* and
- *Septum.*

*Practical Uses of each.*



In



## In *Women.*

The *Mons Veneris*,

- *Labia*,
- *Nymphæ*,
- *Clytoris*,
- *Meatus Urinarius*,
- *Vagina*,
- *Lacunæ*,
- *Uterus*,
- *Os Tincæ*,
- *Cavitas*,
- *Ligamenta Rotunda*,
- *Tubæ Fallopiæ*.

*Practical Use of each.*

The

# The M Y O L O G Y.

## IX. DEMONSTRATION.

*The Muscles of the ABDOMEN, in which we observe*

The Situation and Structure of the Rings.— What Authors mis-call *Ligamentum Ilii & Pubis*.

— *Linea Alba*,

— Intersections of the *Rectus*, &c.

*Practical Use of each.*

*The Muscles of the ANUS.*

Viz. *Levatores*,

— *Sphincter*.

*Their Practical Use.*

*The Muscles of the BLADDER.*

Viz. *Detrusor Urinae*,

— *Sphincter*.

*Practical Use.*

*The Muscles of the PENIS.*

Viz. *Erectores*,

— *Accelerator Seminis*.

*Practical Use.*

*The Muscles of the TESTICLES.*

Viz. *Cremaster*.

*Practical Use.*



## X. DEMONSTRATION.

### *The Situation of the Extensors of the BACK.*

- Intercoastal Muscles,
- Diaphragma.

*Practical Use of each.*

- The Frontal,
- Occipital, and
  - Orbicular Muscles.

*Practical Use of each.*

### *The Muscles of the EYE.*

#### The SPHINCTER ORIS.

- Buccinator,
- Platysma Myoides,
- Mastoidæus,
- Sterno-Hyoidæus,
- Thyroidæus,
- Mylo Hyoidæus,
- Genio Hyoidæus.

*Practical Use of each.*

### *The Muscles of the Lower Jaw.*

#### The Situation and Structure of the

- Temporalis,
- Masseter, and
- Pterigoidæi.

*Practical Use.*

## XI. DEMONSTRATION.

### *The Muscles of the Upper Extremity.*

#### *The Trapezius Scapulae.*

The Shoulder is mov'd by three *Extensors*, viz.

- *Deltoides*,
- *Supraspinatus*,
- *Coracobrachialis*.

#### *One Flexor*, viz.

- *Subscapularis*.

#### *One Adductor*, viz.

- *Pectoralis*,

#### *Three Abductors*, viz.

- *Infraspinatus*,
- *Teres Major*,
- *Latissimus Dorsi*.

#### *Practical Use.*

The Cubit is mov'd by two *Flexors*, viz.

- *Biceps*, and
- *Brachialis*.

#### *Two Extensors*, viz.

- *Triceps*, and
- *Angoneus*.

#### *Practical Use.*



## *In the Palm of the Hand.*

- *Expansio Tendinosa,*
- *Palmaris Brevis,* and
- *Abductor Minimi Digiti.*

*Practical Use.*

The *Carpus* is mov'd by two *Flexors*, viz.

- *Radialis,* and
- *Ulnaris.*

*Practical Use.*

Two *Extensors*, viz.

- *Radialis,* and
- *Ulnaris.*

*Practical Use.*

The *Fingers* are mov'd by two *Flexors*, viz.

- *Sublimis,* and
- *Profundus.*

Two *Extensors*, viz.

- *Extensor Communis,*
- *Extensor Extremi Internodii.*

*Practical Use.*

The *Thumb* is mov'd by three *Extensors* and three *Flexors*.

*Practical Use.*

The *Radius* is mov'd by two *Pronators* and two *Supinators*.

*Practical Use.*

## XII. DEMONSTRATION.

*The Muscles of the Lower Extremity.*

The Thigh is mov'd by two *Flexors*, viz.

- *Biceps*, and
- *Pectinæus*.

Three *Extensors*, viz.

- *Glutæi*.

One *Adductor*, viz.

- *Quadriceps*.

Four *Abductors*, viz.

- *Pyriformis*,
- *Quadratus*,
- *Obturatores*.

*Practical Use.*

The *Tibia* is mov'd by one *Abductor*; viz.

- *Fascialis*.

Two *Adductors*, viz.

- *Sartorius*,
- *Gracilis*.

Three *Flexors*, viz.

- *Biceps*,
- *Semitendinosus*, and
- *Semimembranosus*.

One *Extensor*, viz.

- *Quadriceps*.

*Practical Use.*



The *Tarsus* is mov'd by one *Extensor*, viz.

—— *Triceps*.

Two *Flexors*; viz.

—— *Tibialis Anticus*, and

—— *Par Nonum Vesalii*.

One *Adductor*, viz.

—— *Tibialis Posticus*.

Two *Abductors*, viz.

—— *Peronæi*.

*Practical Use.*

## *The Expansion of the Sole of the Foot, as in the Hand.*

The Toes are mov'd by two *Extensors*, viz.

—— *Longus* and

—— *Brevis*.

Two *Flexors*, viz.

—— *Sublimis* and

—— *Profundus*.

*Practical Use.*

*Abductor* of the Great Toe.

*Abductor* of the Little Toe.

*Practical Use.*

*Operationum*

# *Operationum Chirurgicarum Syllabus.*

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## I. DEMONSTRATION.

### *Of Punctions.*

In General,  
— Particular, *viz.*

#### *Of the Veins and Arteries to let Blood.*

In which we observe what Veins and Arteries are  
usually open'd.

How to open them.

Cautions in opening them, &c.

#### *Of the Aspera Arteria, to give vent to the Air.*

In which I shew that the Operation in it self is  
not dangerous.

That Patients often die because it is not done in Time.

The Inconvenience of the common Way its order'd to  
be done.

An easy and safe Way of performing it.



## *Of the Abdomen to evacuate the Water, &c.*

How to discover the Seat of the Waters.

Why so many die after Tapping.

Why the *Trocar* and *Canula* better than a *Lancet*.

Why *Canula's* with fix'd Points dangerous.

## *Of the Bladder to evacuate the Urine, &c.*

It's less dangerous, and easier cur'd, when made in the  
*Hypogastrium*, than when made in the *Perinaeum*.

## *Of Abscesses to discharge their Contents.*

## II. DEMONSTRATION.

### Of *Sutures*.

In General,

— In Particular, *viz.*

The Emphastick Suture,

— Intermitting Suture,

— Abdominal Suture,

— Tendinous Suture, New Needles.

— Hare-Lip Suture, New Needles.

*French* Pinzetts uselefs in cutting the Callous.

A new, certain, and easy Method of cutting them.

## III. DEMON-



### III. DEMONSTRATION. Of *Hernias*.

In General,  
—— Particular, *viz.*

Of the *Umbilical, Ventral, Inguinal, and Femoral*  
*Hernias.*

The preternatural Structure of the Parts in each.

Their Palliative Cure by Trusses, &c.

Their Radicative Cure by Operation.

Various Ways of Operating.

Inconveniencies of the *Punctum Aureum*, &c.

That Patients often die that might be sav'd, for not  
having these Operations made in Time.

### Of *Imperforations*.

In General,  
—— Particular, *viz.*

#### Of the *Anus*.

—— *Penis*,

—— Lips of the *Vagina* or *Hymen*,

—— Auditory Passage,

—— Eye-Lids.

Objections against *Hildanus's* Way of opening the  
*Eye-Lids*.

## IV. DEMONSTRATION.

### Of *Fistula's*.

In General,  
— Particular, *viz.*

#### Of the *Fistula Ani*.

Its Cure by Causticks, Ligature, and Incision.

Inconveniencies of the *Syringottomus*.

Royal Bistory,

Hidden Bistory,

Flexible *Canula* and *Bistorie*, &c.

Best Way of Cutting,

When to be cur'd, when not, &c.

#### Of the *Fistula Perinæi* after *Lytho-* *tomy*.

Its Cure.

#### *Varia.*

*Phymosis*,

*Paraphymosis*,

Extirpation of the *Penis*,

Castration, various Ways, Cautions.

*Prolapsus Ani*, *Uteri*, & *Vagina*.



## V. DEMONSTRATION.

Methods of sounding with the Probe in Men and Women.

Accidents which happen in sounding with the Probe.

Sounding with the Fingers in both Sexes.

Various Ways of Cutting, *viz.*

### *The Great Operation, or cutting on the Staff.*

- Parts cut in it,
- Parts which are stretch'd, or lacerated,
- Various Instruments used,
- Method of Cutting,
- Objections against it.

### *The Little Operation, or cutting on the Gripe.*

Parts cut.

The *Vesiculæ Seminales* in no Danger of being cut (as is commonly suppos'd) in this Operation.

Methods of Cutting.

Less dangerous than the Great Operation.

Objections against it.

## *Mr. Rau's Way of Cutting.*

Parts cut.

Instruments used.

Method of Cutting.

Objections against it.

Preferr'd to the two foregoing Operations.

## *De Franco's Way of Cutting,*

Preferr'd to the three foregoing Operations.

Objections against it answer'd.

## *Extraction of the Stone in Women.*

The Ordinary Way.

## *Extraction of the Stone in the Urethra*

By Suction, Inflation, a Scoop, and Cutting.



## VI. DEMONSTRATION. Of the *Paracentesis Thoracis*.

When necessary.

Whether the Water, &c. is contain'd in both Sides,  
or only one, and which.

Place of Incision.

Various Methods of Operating, &c.

### *Of the Wry Neck.*

A safe and easy Method of curing it.

Danger of the Ways commonly propos'd.

*Extirpation of Cancerous, Schirrous, or Cysted Tu-  
mours, and External Excrescences.*

#### Method of Cutting

Ulcerated Cancers, large Schirrous Tumours, and  
Excrescences.

#### Method of Cutting

Occult Cancers, and small Schirrous Tumours.

Errors committed in cutting Breasts.

The Forks and Needles that are pass'd thro' these  
Tumours, to hold them by, cruel and inconvenient.

The Purse and Forceps, used by others, troublesome  
and uncertain.

An easy and certain Way of holding them.

The great, long, or crooked Knives used to cut them  
with, frightful and very inconvenient.

A proper Knife.

## VII. DEMONSTRATION.

### *Varia.*

### *Of Seatons and Fontanells.*

Whether Seatons to be made by Incision or Caustery, by Needles or Lancets, with a great or small, rough or smooth Cord.

Various Forceps, &c. for making them.— Where made, &c.

### *Issues by Caustick, Incision, &c.*

Where made, &c.

### *Extraction of Polypus's.*

Various Instruments and Methods used.

### *Extraction of the Tonsils.*

Various Instruments.

Various Methods.

An easy and safe Way.

### *Extraction of the Uvula.*

Various Methods.

*Extraction*



*Extraction of extraneous Bodies.*

From the Ear,

By Position,  
—— Incision, or  
—— Ear-Picker.

From the Throat,

Various Ways.

From Wounds,

Various Ways.

*Linguae Vinculi & Penis Fræni Sectio.*

*Antitragi Ustio.*

Causticks preferable to Punction, Incision, or Seaton,  
in the *Hydrocele*.

VIII. DEMON-

## VIII. DEMONSTRATION.

### *Varia.*

### Of the *Fistula Lachrymalis.*

Various Ways of making the Operation.

How they propose to open Simple Obstructions of the *Ductus*.

By Blowing,  
—— Injecting, or  
—— Thrusting a Bristle in it.

### Of *Aneurismes* and *Varices.*

In General.

How and when we can make the Operation.

Several Machines to cure them by Compression, &c.

### Of *Whitlows.*

Various Kinds.

### *How to Cup,*

With Tow,  
—— Wax-Candle,  
—— Lamp,  
—— Air-Pump, &c.

Various Ways of Scarrifying.

Various Ways of stopping *Hemorages*, according to the Part affected.



## IX. DEMONSTRATION.

*Of Fractures of the Skull.*

The Inconveniences of the common Instruments.

The Razor and Fingers recommended by many to make the Skull bare, tedious and troublesome.

An expeditious Way of doing it.

A new Lenticular.

The *Decussorium* corrected.

The Traphine preferr'd to the Trepan, Why?

Trepanning in it self not dangerous.

People often die for not being trepann'd in Time.

Perforative and Exfoliative Trepan; Raspatories, Head-Saws, cutting Compasses, &c. useless in these Fractures.

Cas'd Crowns troublesome and dangerous.

Leaden Mallet and Chissel for cutting Points dangerous.

A convenient Instrument for cutting Points with great Safety and Expedition.

Screw Levatory's dangerous and ineffectual.

Great Accidents happen from unskilful Dressing these Fractures.

*Bellost's* Way of Dressing consider'd.

Objections against it.

A better Method.

No Case try's a Man's Judgment more than Fractures of the Skull.

## X. DEMONSTRATION.

### Of *Amputations*.

#### OF AMPUTATIONS in General.

Places of applying the Circular Ligature, or Choak Band.

Its Use.

Method and Place of applying the *Tournequet* in the Leg and Fore-Arm, and in the Thigh and Arm.

Two Turnsticks needless.

Gripping uncertain.

A new Machine, which answers all the Intentions of the *Tournequet*, with a great deal less Trouble.

How and where to cut the *Teguments*.

### *How to cut the Muscles, &c.*

In the Arm and  
— Thigh,

In the Leg and  
— Fore-Arm.

A strait dismembring Knife, preferable to a Sickle-like one.

The sharp Place about two Inches long made in the Backs of a great many, useles.

Those



Those that have one half of the back sharp towards the Point, very troublesome and inconvenient.

## *A new Method of cutting the Perioftium.*

Its Ufe.

A new Catlin.

Way of ufing it.

Its Advantages.

The long small Catlins, with one or two Edges, Ufelefs.

## *How to Saw.*

How to keep the Flefh up when we Saw.

Various Ways.

How to hold the Limb when Sawing.

Accidents which happen in Sawing.

How to avoid them.

## *How to stop the Blood, viz.*

By Stiptick Liquors or Powders,

—— Causticks Actual or Pontential;

—— *Oleum Terebinth*,

—— Ligature of the Vessels, with Needles, or with Needles and Forceps.

Advantages and Inconveniencies of each.

The Spring, Ring, *viz. Valet a Patin*, and common Forceps, troublesome and uncertain.

A new and more convenient Pair.

Convenient Needles.

Heaps of Astringent Powders that are apply'd to the Stump after the Ligatures, for the more Security, prejudicial.

How to make a small Stump.

Cross-stitch very useful.

Its Advantages.

Objections against it answer'd.

Emplastick Stitch also very advantageous.

A particular Method of Dressing.

The Use of every Part of it.

How to place the Patient in Bed.



The Exfoliation of the Bones never to be expected after these Operations.

The Ends of the Bones never to be seen after the Operation, especially in the Thigh or Arm.

Advantages of the whole, *viz.*

Stumps made after this Method will always be cur'd in less than half the Time that's commonly taken; because the Bones, instead of standing out beyond the Flesh, (which is but too common, and always the Effect of an ill made Operation, and the Cause of a long and tedious Cure) are entirely cover'd by it, whereby the Exfoliation is effectually prevented, the Wound is contracted to less than half the common Size, and the Suppuration to half the Quantity; by which the dangerous Fever that often accompanies them, is in a great Measure prevented, and a speedy Cure obtain'd, &c.

A particular Method of amputating Fingers and Toes in the Joints, and in the Bones.

Cutting Forceps, Mallets, and Chissels not to be used, why?

## Bottallus's *Way of Amputating*

Its Inconveniences.

## Verduin's *Way*.

Its Advantages.

In what Cases proper.

His Machines corrected.

*Of the Diseases of the BONES.*

FRACTURES.

I. DEMONSTRATION.

*Of Fractures in General.*

II. DEMONSTRATION.

*Of Simple Fractures.*

III. DEMONSTRATION.

*Of Compound Fractures.*

IV. DEMONSTRATION.

*Of the Caries, Nodus, Exostosis, &c.*

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DISLO-



## DISLOCATIONS.

## V. DEMONSTRATION.

*Of Dislocations in General.*

## VI. DEMONSTRATION.

*Of Dislocations in Particular, E. G.*

Various Ways of replacing the

*Os Humeri, viz.*

By the Hands,

—— Straps,

—— Instruments, *viz.*

The Pulley,

—— Crutch.

Mistakes made in using them.

Authors are not so generally mistaken in any one Operation, as in that of reducing the Luxation of the HUMERUS, wherein they recommend, the COUL-STAFF, the MAN'S SHOULDER, the DOOR, the LADDER, the HEEL, the AMBY, all the BALLS, &c. in that Operation: As also the new trump up Machine with which Mechanicks lift great Weights: Because its impossible to apply any one of them, so as they won't oppose instead of assisting Nature during the Operation, as shall be made appear in the Demonstration.



A General and certain Rule for reducing Luxations, whereby any one may know whether an Instrument will answer or not, as soon as he sees it apply'd; or suppose its a good Instrument, whether he that applys it understands it or not.

## Of Bandages.

In General,  
— Particular,

*Artes, & omnia cetera esse audita videmus, non per eos, qui usitata retinuerunt, sed eorum Opera, qui correxerunt, locoq; movere prava omnia non dubitarunt.*

N. B. The Course begins on *Tuesday* the 15th Day of this Instant *September*, at my House in *Fetter-Lane*, where Subscriptions are taken in.

F I N I S.

### E R R A T A.

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*Just publish'd,*

**G**eneral Observations and Prescriptions in the Practice of Physick on several Persons of Quality, &c. by an eminent Physician, who was Cotemporary with Dr. Gifford, Dr. Ridgeley, Dr. Meveral, Dr. Andrews, and Sir Theodore Mayerne, Physicians in Ordinary to King James and King Charles the First. Inscrib'd to Sir Samuel Garth, Kt. Printed for Tho. Woodward next Door but one to Temple-Bar.